Below is a research problem. Go through the list of threats to construct validity, and discuss which of the threats are and which are not of major concern here.

General idea behind the research scenario (a quotation from our researcher): “I feel that plyometric strength training is more effective for gaining strength than isometric strength training. I’ve done plyometrics for years, and it has worked wonders.”

- An undergrad class taught by the researcher is split into 3 groups of 30. One third is assigned to a plyometric strength-training program, 1/3 to an isometric program, and 1/3 do nothing. Before assigning them, the researcher makes sure to tell the entire class about the purpose of the research, and explains we are doing it to see if the researcher’s suspicions about plyometrics are correct.
- Before and at the end of the programs, all students are tested on a measure of strength - a grip dynamometer. This test is supervised by the researcher to make sure proper procedures are followed.
- It is expected that the plyometric group will make the greater strength gains.

For discussion

Below is a list of constructs that we might be interested in measuring.

- physical activity participation
- physical fitness level
- self-confidence
- job satisfaction

Consider the following for each construct:
1. What would be a reasonable operationalization of the construct?
2. How might you establish translation validity?
3. What other measures (criteria) might you use to try to establish validity?